

ABSTRACT OF THE DISCLOSURE

A fiberoptic wavelength combiner comprises: a collimating lens having a first surface and a second surface, opposite the first surface; two input optical fibers secured to the first surface, each input optical fiber conducting light at a wavelength that is different from other input optical fibers; a wedged mirror spaced from the second surface, the wedged mirror having a front surface facing the collimating lens and a rear surface, the front surface provided with a first reflective coating and the rear surface provided with a second reflective coating; and an output optical fiber secured to the first surface, whereby light from the input optical fibers is collimated by the lens and made incident on the wedged mirror and its first and second reflective coatings to thereby direct the light back through the collimating lens onto the output optical fiber. Further, a method of aligning the fiberoptic wavelength combiner is provided.